



Roadmap to a Sustainable Waste Management Future



Waste Diversion
Strategies in the
Unincorporated
Communities of Los
Angeles County
Throughout the
Region and at
County Operations

Environmental Programs Division

Los Angeles County Department of Public Works



Agenda

- Sustainable Waste Future Roadmap
- Key Drivers
- State of Waste in 2014
- Disposal Reduction Targets
- Next Steps



Sustainable Waste Management Future Roadmap



The Roadmap lays out the general framework for strategies and initiatives the County can use to **decrease reliance on landfills by maximizing the recovery** of products, materials, and energy from waste that would otherwise be disposed at landfills.

October 21st Board Actions

1. Adopt the Roadmap to a Sustainable Waste Management Future, including recommended strategies, initiatives, and **disposal reduction targets**;
2. In coordination with the Working Group, develop **implementation plans**, as appropriate, for the initiatives within the Roadmap;
3. In coordination with the Working Group, **solicit feedback** from residents, businesses, public agencies, the waste industry, environmental organizations, and other stakeholders;
4. Submit **annual reports** to the Board on the progress of the implementation of the Roadmap to a Sustainable Waste Management Future.

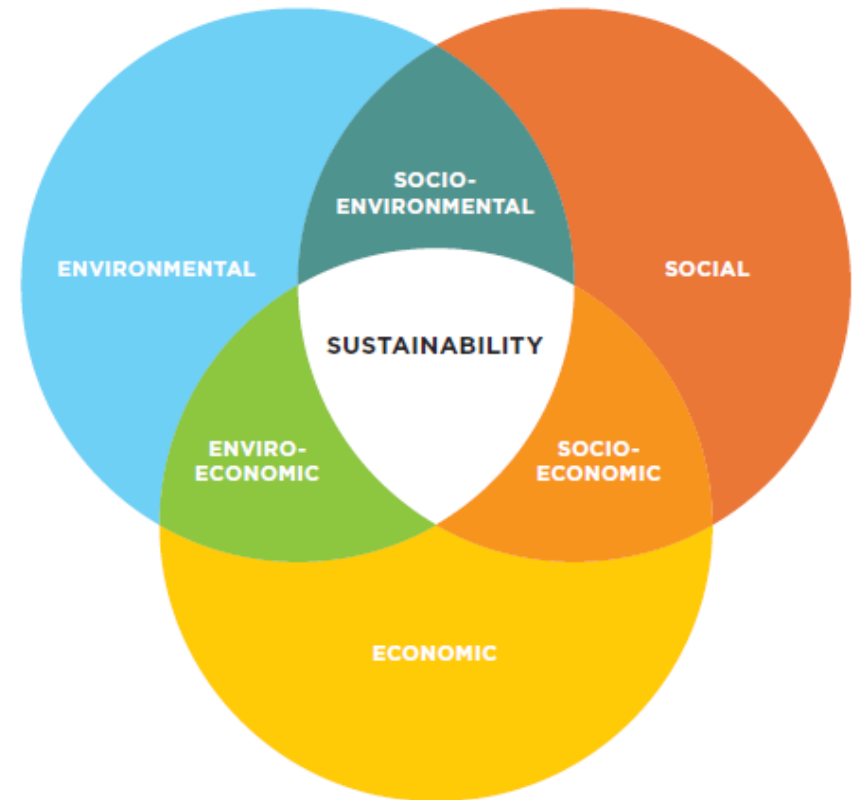
Key Drivers

- AB 32 – Greenhouse Gas Reduction Law
- AB 341 – Statewide 75 Percent Recycling Goal and Commercial Recycling Mandate
- AB 1826 – Organics Diversion Mandate
- Diminishing Landfill Capacity in Los Angeles County

Alignment with County Priorities

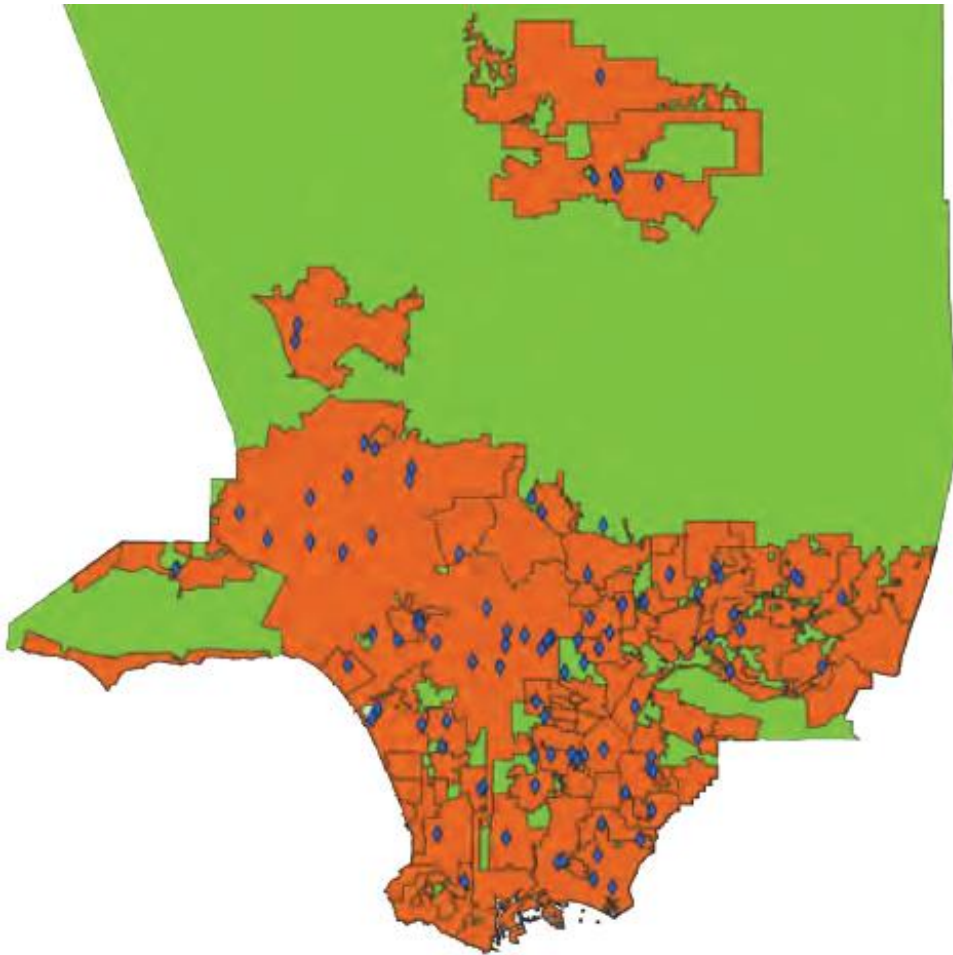
Elements of Sustainability

- The Los Angeles County Strategic Plan, Goal #2: Community Support and Responsiveness;
- The final draft Community Climate Action Plan; and
- The Public Works Strategic Plan



An integrated approach to environmental, social, and economic impact issues.

Structure of the Roadmap



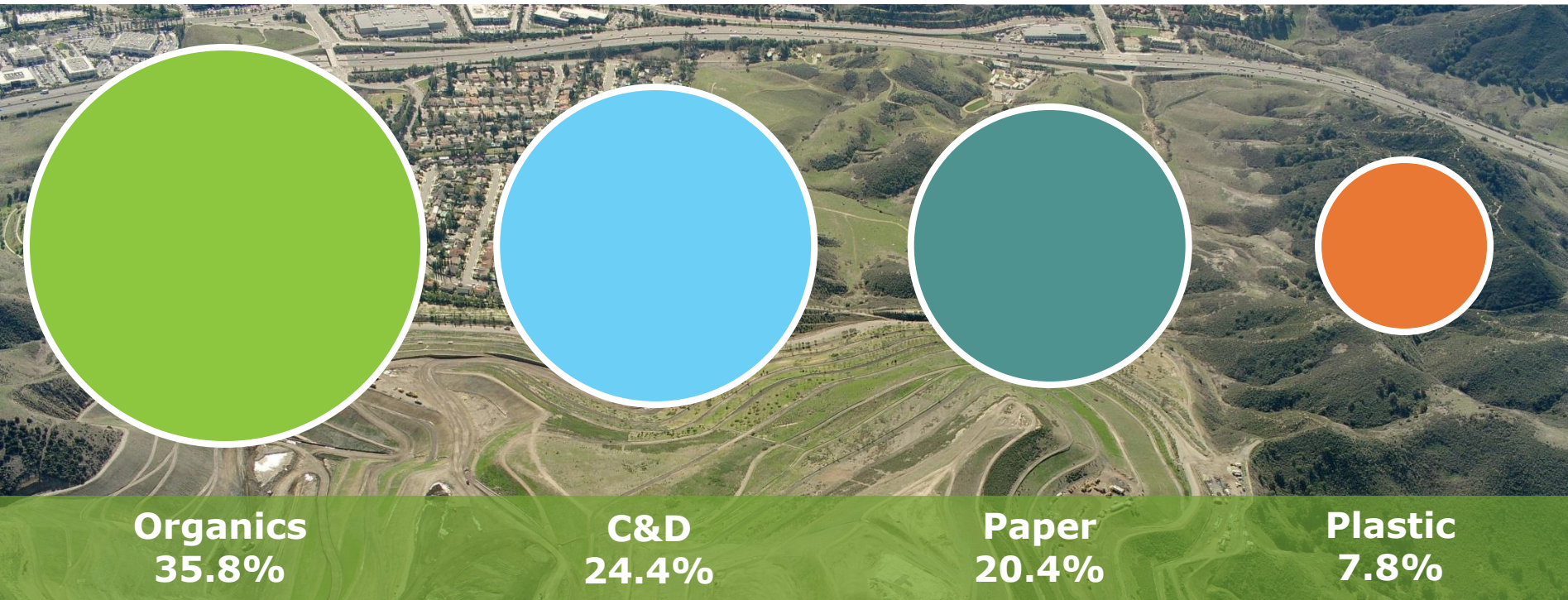
Focus Areas

- **County Unincorporated Communities**
- **Regional/Countywide**
- **County Operations**

Strategies

- **Quality Programs and Services**
- **Measuring Results**
- **Facilities and Infrastructure**
- **Outreach and Education**

State of Waste in 2014



- More than 1 million people in CUC
- CUC generated approximately 2.9 million tons of materials in 2005
 - Equivalent to 14.8 pounds generated per resident per day (ppd) resulting in a diversion rate of 50 percent compared to a 1990 baseline
- Currently, the CUC dispose 4 ppd, achieving approximately a **70 percent diversion rate** with respect to 2005 baseline year

Disposal Reduction Targets

- 80% diversion from landfills by 2025
- 90% diversion from landfills by 2035
- 95% + diversion from landfills by 2045



Example of an outdoor zero waste station at the City of Vancouver, BC, with bins for:

Refundable Containers, **Mixed Containers**, **Mixed Paper**, **Compostables**, and **Garbage Only**

Highlighted Roadmap Initiatives

County Unincorporated Communities

- Recover Organics, including Food Waste, to Highest and Best Uses
- Maximize Diversion of Construction and Demolition (C&D) Debris
- Advocate for Extended Producer Responsibility (EPR)
- Waste Sector Assessment
- Communication Action Plan

Regional/Countywide

- Enhance Household Hazardous Waste (HHW) and Electronic Waste Management
- Develop Conversion Technologies and Integrated Materials Recovery Facilities
- Develop Resource and Recovery Centers and Re-Stores for Self-Haul Customers

County Operations

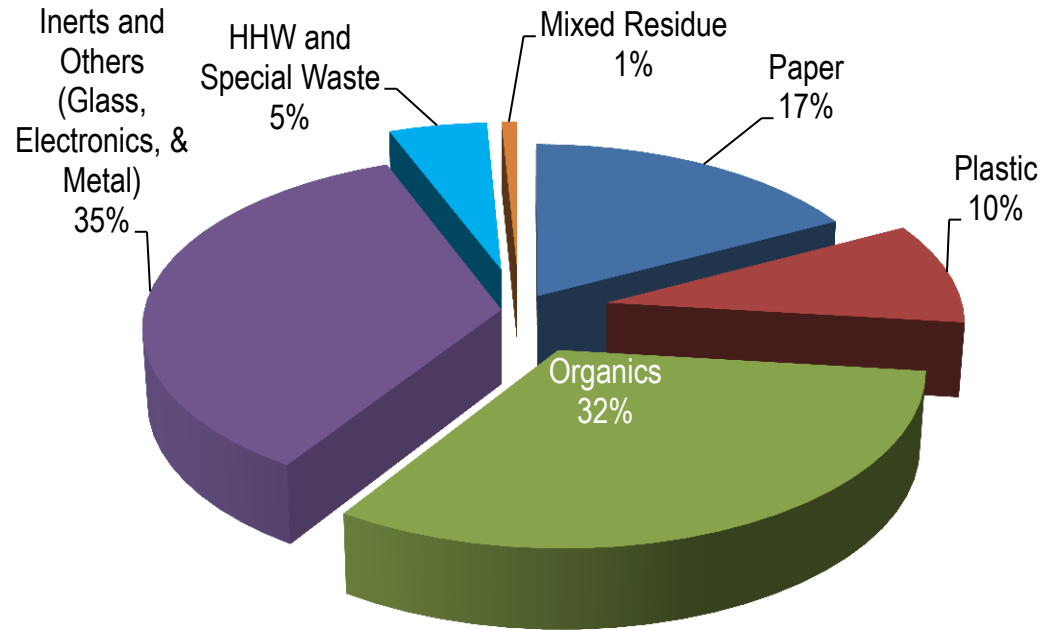
- Evaluate County purchasing practices
- Waste Sector Assessment
- Organics Processing Infrastructure at County Facilities

Priority Implementation Plans

- Organics Management Implementation Plan
- Enhanced County Departments Recycling Implementation Plan
- Conversion Technology Implementation Plan
- Extended Producer Responsibility (EPR) Implementation Plan
- Household Hazardous Waste Implementation Plan
- Resource Recovery Center Implementation Plan

Organics Management

- **Separate collection**
 - Commercial Sector
 - Large Generators
 - County Departments
- **Infrastructure**
 - Anaerobic Digestion
 - Composting
 - Conversion Technologies
- **Education**
 - Businesses
 - Residents



Organics includes: Food Waste, Green Waste, and Textiles

Enhance C&D Ordinance

- Started in 2005 to meet state requirements to divert 50% of C&D debris from landfills
- Revising ordinance to raise diversion rate to 70%
- Offer cities to contract with the County on providing C&D services
- Including County Projects in the ordinance



Conversion Technologies



**OWS Anaerobic Digestion Facility,
Munster, Germany**

- Assist jurisdictions & private companies with project development.
- Build coalition of cities & state agencies in support of CTs.
- Sponsor CT legislation: SB 498 (Lara)
- Focus on biomass/organics

Extended Producer Responsibility



- Major priority for the County working with California Product Stewardship Council (CPSC)
- Key EPR issues for 2014
 - Carpet
 - Paint
 - Pharmaceuticals
 - Batteries
 - Sharps

Challenges

While achievable, we recognize that it will not be easy to accomplish. Challenges include:

- Needing additional infrastructure
- Lack of clear permitting pathways
- Limited local markets for recyclables and compost
- Identifying sustainable funding sources and incentives
- Obtaining stakeholder support from residents and businesses

Planned Board Actions

- Advanced Solid Waste Conversion Technology Services Contract
- Commercial and Institutional Recycling Program Contract
- Smart Business Contract
- Waste Characterization Contract
- Revised Construction and Demolition Debris Ordinance
- Roadmap Outreach Contract

Next Steps

- Develop Stakeholder Engagement Plan and begin outreach
- Develop implementation plans for 3 key immediate initiatives
 - County Operations
 - C&D Ordinance
 - Organics Management
- Begin County Departmental Working Group involvement in implementation plans December 8th

Questions?

**A
Trash
Solution
for a
Green
Evolution**



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